



\*\*FILE\*\*ID\*\*EVCDEF

J 3

```
0001 0
0002 0 Version: 'V04-000'
0003 0 ****
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0023 0 *
0024 0 *
0025 0 ****
0026 0
0027 0 ++
0028 0
0029 0 NMAHEAD.B32
0030 0
0031 0 Define $EQLST macro to make library from the NMALIBR.Y.B32 file
0032 0
0033 0 This source is taken from the following source:
0034 0 --
0035 0 ++
0036 0
0037 0 UTLDEF.B32 - UTILITY DEFINITION MACROS FOR BLISS PROCESSING
0038 0 OF STARLET DEFINITION MACROS.
0039 0
0040 0 --
0041 0
0042 0
0043 0
0044 0 | MACRO TO GENERATE EQLST CONSTRUCTS.
0045 0
0046 0 MACRO
M 0047 0   $EQLST(P,G,I,S)[A]=
M 0048 0     %NAME(P,GET1ST_ A) =
M 0049 0     %IF NUL2ND_ A
M 0050 0     %THEN (I) + %COUNT*(S) ! ASSUMES I, S ALWAYS GENERATED BY CONVERSION PROGRAM
M 0051 0     %ELSE GET2ND_ A
M 0052 0     %FI %.
M 0053 0
M 0054 0   GET1ST_(A,B)=
M 0055 0     A%
M 0056 0   GET2ND_(A,B)=
M 0057 0     B% , ! KNOWN NON-NUL
```

L 3  
15-Sep-1984 23:03:06

VAX-11 Bliss-32 V4.0-742  
\$255\$DUA28:[EVL.SRC]LIBHEAD.B32;1

Page (1)

: M 0058 0      NUL2ND (A,B)=  
: 0059 0      %NULL(B) %;  
: 0060 0  
: 0061 0  
: 0062 0      End of NMAHEAD  
: 0063 0

0064 0 | .TITLE EVCDEF  
0065 0 | .IDENT 'V04-000' Network Event Logger Definitions

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0093 0 ++  
0094 0 | FACILITY: DECnet-VAX Network Management Components  
0095 0 | for Event Logging

0097 0 | ABSTRACT:

0099 0 | Common Definitions for Network Management Event Logging  
0100 0 | These definitions are used by other components of the  
0101 0 | network.

0103 0 | ENVIRONMENT: VAX/VMS Operating System

0105 0 | AUTHOR: Darrell Duffy, Tim Halvorsen, 13-June-1980

0107 0 | MODIFIED BY:

0109 0 | V011 MKP0001 Kathy Perko 12-June-1984  
0110 0 | Add Ethernet address to Management layer events.

0112 0 | V010 TMH0010 Tim Halvorsen 26-Apr-1983  
0113 0 | Add "verification password required from Phase III node"  
0114 0 | and "dropped by adjacent node" Routing Layer reasons.

0116 0 | V009 TMH0009 Tim Halvorsen 08-Apr-1983  
0117 0 | Make ECOs approved during the March 1983 DRG meetings.

0119 0 | V008 TMH0008 Tim Halvorsen 22-Nov-1982  
0120 0 | Add "area" to the list of event sources.

0121 0 | Add new DTE parameter for event class 0.  
0122 0 |  
0123 0 |  
0124 0 |  
0125 0 |  
0126 0 |  
0127 0 |  
0128 0 |  
0129 0 |  
0130 0 |  
0131 0 |  
0132 0 |  
0133 0 |  
0134 0 |  
0135 0 |  
0136 0 |  
0137 0 |  
0138 0 |  
0139 0 |  
0140 0 |  
0141 0 |  
0142 0 |  
0143 0 |  
0144 0 |  
0145 0 |  
0146 0 |  
0147 0 |  
0148 0 |--

V007 TMH0007 Tim Halvorsen 26-Sep-1982  
Add VMS-specific events for process creation/termination.  
Add "module" to the list of event sources.  
Add DTE up/down events, newly added to DNA NM.

V006 TMH0006 Tim Halvorsen 27-Jul-1982  
Add Transport Phase IV events, and new "adjacent node"  
transport layer event parameter.

V005 TMH0005 Tim Halvorsen 05-Apr-1982  
Fix comments describing raw event buffer.  
Fix typo in SCL reason code symbol.

V004 TMH0004 Tim Halvorsen 11-Nov-1981  
Add Duplicate Phase II transport initialization event.

V003 TMH0003 Tim Halvorsen 05-Aug-1981  
Add DAP CRC VMS-specific event

V002 TMH0002 Tim Halvorsen 07-Jul-1981  
Add new 2.2 events.

V001 TMH0001 Tim Halvorsen 19-Dec-1980  
Make line and node ID codes conform to the DNA entity  
numbering scheme.

```
0149 0
0150 0
0151 0
0152 0
0153 0 | Symbols for event codes
0154 0 !
0155 0
0156 0 !...$EVCDEF
0157 0
0158 0
0159 0 | Symbols for event classes
0160 0
0161 0
0162 0 LITERAL
P 0163 0 SEQLST (EVCSC_,GBL,0,1
P 0164 0
P 0165 0 .(CLS_NMA, 0) ! Network management
P 0166 0 .(CLS_APL, 1) Application layer
P 0167 0 .(CLS_SCL, 2) Session control layer
P 0168 0 .(CLS_NSL, 3) Network services layer
P 0169 0 .(CLS_TPL, 4) Transport layer
P 0170 0 .(CLS_DLL, 5) Data link layer
P 0171 0 .(CLS_PLL, 6) Physical link layer
P 0172 0 .(CLS_VMS, 128) ! VMS Specific
P 0173 0
0174 0 )
0175 0
0176 0 LITERAL
P 0177 0 SEQLST (EVCSC_,GBL,0,1 ! Source codes
P 0178 0
P 0179 0 .(SRC_NON, 255) ! No source id
P 0180 0 .(SRC_NOD, 0) Node source
P 0181 0 .(SRC_LIN, 1) Line source
P 0182 0 .(SRC_CIR, 3) Circuit source
P 0183 0 .(SRC_MOD, 4) Module source
P 0184 0 .(SRC_ARE, 5) ! Area source
P 0185 0
P 0186 0 .(WLDCLS_KNO, 3) ! Value for known events
P 0187 0 .(WLDCLS_ALL, 2) ! Value of all events in class
P 0188 0
0189 0 )
0190 0
0191 0 ! Mask values for sink flags
0192 0
0193 0 MACRO EVC$V_SNKFLG_CON = 0,0,1,0%; ! Console
0194 0 LITERAL EVC$M_SNKFLG_CON = 1^1 - 1^0;
0195 0 MACRO EVC$V_SNKFLG_FIL = 0,1,1,0%; ! File
0196 0 LITERAL EVC$M_SNKFLG_FIL = 1^2 - 1^1;
0197 0 MACRO EVC$V_SNKFLG_MON = 0,2,1,0%; ! Monitor
0198 0 LITERAL EVC$M_SNKFLG_MON = 1^3 - 1^2;
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: 0202 0
: 0203 0
: 0204 0
: 0205 0
: 0206 0 | Specific event codes, note that values contain the event class
: 0207 0 | as well as the code.
: 0208 0
: 0209 0
: 0210 0 | LITERAL
P 0211 0 | SEQLST (EVCSC_,GBL,0,1
P 0212 0
P 0213 0 | ,(NMA_LOS, 0^6+0) | event records lost
P 0214 0 | ,(NMA_ANC, 0^6+1) | automatic node counters
P 0215 0 | ,(NMA_ALC, 0^6+2) | automatic line counters
P 0216 0 | ,(NMA_ALS, 0^6+3) | automatic line service
P 0217 0 | ,(NMA_LCZ, 0^6+4) | circuit counters zeroed
P 0218 0 | ,(NMA_NCZ, 0^6+5) | node counters zeroed
P 0219 0 | ,(NMA_PSL, 0^6+6) | passive loopback
P 0220 0 | ,(NMA_ABS, 0^6+7) | aborted service request
P 0221 0 | ,(NMA_CTR, 0^6+8) | automatic counters
P 0222 0 | ,(NMA_ZER, 0^6+9) | counters zeroed
P 0223 0
P 0224 0 | ,(SCL_LNS, 2^6+0) | local node state change
P 0225 0 | ,(SCL_ACR, 2^6+1) | access control reject
P 0226 0
P 0227 0 | ,(NSL_IMS, 3^6+0) | invalid message
P 0228 0 | ,(NSL_IFC, 3^6+1) | invalid flow control
P 0229 0 | ,(NSL_DBR, 3^6+2) | data base reused
P 0230 0
P 0231 0 | ,(TPL_APL, 4^6+0) | aged packet loss
P 0232 0 | ,(TPL_UPL, 4^6+1) | node unreachable packet loss
P 0233 0 | ,(TPL_RPL, 4^6+2) | node out-of-range packet loss
P 0234 0 | ,(TPL_OPL, 4^6+3) | oversized packet loss
P 0235 0 | ,(TPL_PFM, 4^6+4) | packet format error
P 0236 0 | ,(TPL_PRU, 4^6+5) | partial routing update loss
P 0237 0 | ,(TPL_VFR, 4^6+6) | verification reject
P 0238 0 | ,(TPL_LDF, 4^6+7) | circuit down, circuit fault
P 0239 0 | ,(TPL_CDS, 4^6+8) | circuit down
P 0240 0 | ,(TPL_CDO, 4^6+9) | circuit down, operator initiated
P 0241 0 | ,(TPL_LUP, 4^6+10) | circuit up
P 0242 0 | ,(TPL_ILF, 4^6+11) | initialization failure, circuit fault
P 0243 0 | ,(TPL_ISF, 4^6+12) | initialization failure, software fault
P 0244 0 | ,(TPL_IOF, 4^6+13) | initialization failure, operator fault
P 0245 0 | ,(TPL_RCH, 4^6+14) | node reachability change
P 0246 0 | ,(TPL_AUP, 4^6+15) | adjacency up
P 0247 0 | ,(TPL_ARJ, 4^6+16) | adjacency rejected
P 0248 0 | ,(TPL_ACH, 4^6+17) | area reachability change
P 0249 0 | ,(TPL_LDS, 4^6+18) | adjacency down
P 0250 0 | ,(TPL_LDO, 4^6+19) | adjacency down, operator initiated
P 0251 0
P 0252 0 | ,(DLL_LSC, 5^6+0) | locally initiated state change
P 0253 0 | ,(DLL_RSC, 5^6+1) | remotely initiated state change
P 0254 0 | ,(DLL_PRS, 5^6+2) | protocol restart received in maintenance mode
P 0255 0 | ,(DLL SND, 5^6+3) | send error threshold
P 0256 0 | ,(DLL RET, 5^6+4) | receive error threshold
P 0257 0 | ,(DLL_SLC, 5^6+5) | select error threshold
P 0258 0 | ,(DLL_BHF, 5^6+6) | block header format error

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: P 0259 0	,(DLL_SAD, 5^6+7)	selection address error
: P 0260 0	,(DLL_STT, 5^6+8)	streaming tributary
: P 0261 0	,(DLL_LBS, 5^6+9)	local buffer too small
: P 0262 0	,(DLL_RST, 5^6+10)	restart (x.25 protocol)
: P 0263 0	,(DLL_STC, 5^6+11)	state change (x.25 protocol)
: P 0264 0	,(DLL_RME, 5^6+12)	retransmit maximum exceeded (x.25)
: P 0265 0	,(DLL_IFL, 5^6+13)	initialization failure
: P 0266 0	,(DLL_SFL, 5^6+14)	send failure
: P 0267 0	,(DLL_RFL, 5^6+15)	receive failure
: P 0268 0	,(DLL_CDC, 5^6+16)	collision detect check failed
: P 0269 0	,(DLL_DTU, 5^6+17)	DTE up (x.25 protocol)
: P 0270 0	,(DLL_DTD, 5^6+18)	DTE down (x.25 protocol)
: P 0271 0		
: P 0272 0	,(PLL_DSR, 6^6+0)	data set ready transition
: P 0273 0	,(PLL_RIN, 6^6+1)	ring indicator transition
: P 0274 0	,(PLL_CAR, 6^6+2)	unexpected carrier transition
: P 0275 0	,(PLL_MEM, 6^6+3)	memory access error
: P 0276 0	,(PLL_COM, 6^6+4)	communications interface error
: P 0277 0	,(PLL_PFM, 6^6+5)	performance error
: P 0278 0		
: P 0279 0	,(VMS_DBC, 128^6+0)	! Logging data base change (no parameters)
: P 0280 0		
: P 0281 0		
: P 0282 0	,(VMS_DPC, 128^6+1)	! DAP CRC error remote node
: P 0283 0		
: P 0284 0		
: P 0285 0	,(VMS_DP2, 128^6+2)	! Duplicate Phase II initialization (no parameters)
: P 0286 0		
: P 0287 0		
: P 0288 0	,(VMS_PCR, 128^6+3)	! process creation name
: P 0289 0		PID
: P 0290 0		status (creation)
: P 0291 0		
: P 0292 0		
: P 0293 0	,(VMS_PTR, 128^6+4)	! process termination PID
: P 0294 0		status (termination)
: P 0295 0		
: P 0296 0		
: 0297 0	):	

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.: 0298 0
.: 0299 0
.: 0300 0
.: 0301 0
.: 0302 0
.: 0303 0
.: 0304 0
.: 0305 0
P 0306 0      | Event Parameter Codes
P 0307 0      | LITERAL SEQULST (EVCSC_.GBL.0.1)
P 0308 0      | (NMA_PSER, 0)      ! service
P 0309 0      | (NMA_PSER_LOA, 0)      load
P 0310 0      | (NMA_PSER_DUM, 1)      dump
P 0311 0      | (NMA_PSTS, 1)
P 0312 0      | (NMA_POPR, 2)
P 0313 0      | (NMA_POPRINI, 0)      ! status
P 0314 0      | (NMA_POPRTER, 1)      initiated
P 0315 0      | (NMA_PRSN, 3)      ! operation
P 0316 0      | (NMA_PRSN_TMO, 0)      terminated
P 0317 0      | (NMA_PRSN_ERR, 1)
P 0318 0      | (NMA_PRSN_LSC, 2)
P 0319 0      | (NMA_PRSN_UNR, 3)
P 0320 0      | (NMA_PRSN_LDE, 4)
P 0321 0      | (NMA_PNOD, 5)
P 0322 0      | (NMA_PDTE, 6)
P 0323 0      | (NMA_PFILE, 7)
P 0324 0      | (NMA_PSTY, 8)
P 0325 0      | (NMA_PSNI, 9)      ! reason
P 0326 0
P 0327 0      | (SCL_PRSN, 0)
P 0328 0      | (SCL_PRSN_OPC, 0)      ! Node ID
P 0329 0      | (SCL_PRSN_NOR, 1)      DTE address (AI-16)
P 0330 0      | (SCL_POLD, 1)      Filespec
P 0331 0      | (SCL_PNEW, 2)      Software type
P 0332 0
P 0333 0      | (SCL_PNOD, 3)      ! Source NI address
P 0334 0      | (SCL_PSPC, 4)
P 0335 0      | (SCL_PPDC, 5)
P 0336 0      | (SCL_PUSR, 6)
P 0337 0      | (SCL_PPSW, 7)
P 0338 0      | (SCL_PACC, 8)      ! reason
P 0339 0
P 0340 0      | (NSL_PMSG, 0)      ! operator command
P 0341 0      | (NSL_PFL0, 1)      ! normal operation
P 0342 0      | (NSL_PNOD, 2)      ! old state
P 0343 0
P 0344 0      | (TPL_PPKH, 0)      ! use node states for code
P 0345 0      | (TPL_PPKB, 1)      ! new state
P 0346 0      | (TPL_PHIA, 2)      ! use node states for code
P 0347 0      | (TPL_PNOD, 3)      source node
P 0348 0      | (TPL_PEXP, 4)      source process
P 0349 0      | (TPL_PRSN, 5)      destination process
P 0350 0      | (TPL_PRSN_SYNC, 0)      user identification
P 0351 0      | (TPL_PRSN_DAER, 1)      password
P 0352 0      | (TPL_PRSN_UXPK, 2)      account
P 0353 0      | (TPL_PRSN_RUCS, 3)      message
P 0354 0      | (TPL_PRSN_DAER, 1)      current flow control
P 0355 0      | (TPL_PRSN_UXPK, 2)      source node
P 0356 0      | (TPL_PRSN_RUCS, 3)      packet header
P 0357 0      | (TPL_PPKB, 1)      packet beginning
P 0358 0      | (TPL_PPKH, 0)      highest address
P 0359 0      | (TPL_PNOD, 3)      node
P 0360 0      | (TPL_PEXP, 4)      expected node
P 0361 0      | (TPL_PRSN, 5)      reason
P 0362 0      | (TPL_PRSN_SYNC, 0)      line synchronization lost
P 0363 0      | (TPL_PRSN_DAER, 1)      data errors
P 0364 0      | (TPL_PRSN_UXPK, 2)      unexpected packet type
P 0365 0      | (TPL_PRSN_RUCS, 3)      routing update checksum error

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: P 0355 0 .(TPL_PRSN_ADJC, 4) | adjacent node address change
: P 0356 0 .(TPL_PRSN_VTMO, 5) | verification receive timeout
: P 0357 0 .(TPL_PRSN_VRSK, 6) | version skew
: P 0358 0 .(TPL_PRSN_ADJR, 7) | adjacent node address out of range
: P 0359 0 .(TPL_PRSN_ADJB, 8) | adjacent node block size too small
: P 0360 0 .(TPL_PRSN_SEED, 9) | invalid verification seed value
: P 0361 0 .(TPL_PRSN_LTMO, 10) | adjacent node listener receive timeout
: P 0362 0 .(TPL_PRSN_LINV, 11) | adjacent node listener received invalid data
: P 0363 0 .(TPL_PRSN_CFAI, 12) | call failed
: P 0364 0 .(TPL_PRSN_VREQ, 13) | verification password required from Phase III node
: P 0365 0 .(TPL_PRSN_DROP, 14) | dropped by adjacent node
: P 0366 0 .(TPL_PVRS, 6) | received version
: P 0367 0 .(TPL_PSTS, 7) | status
: P 0368 0 .(TPL_PSTS_RCH, 0) | : reachable
: P 0369 0 .(TPL_PSTS_URC, 1) | : unreachable
: P 0370 0 .(TPL_PADJ, 8) | adjacent node

: P 0371 0 .(DLL_POLD, 0) | old state
: P 0372 0 .(DLL_POLD_HALT, 0) | : halted
: P 0373 0 .(DLL_POLD_ISTR, 1) | : istr
: P 0374 0 .(DLL_POLD_ASTR, 2) | : astr
: P 0375 0 .(DLL_POLD_RUNG, 3) | : running
: P 0376 0 .(DLL_POLD_MAIN, 4) | : maintenance
: P 0377 0 .(DLL_PNEW, 1) | new state
: P 0378 0 .(DLL_PHDR, 2) | header
: P 0379 0 .(DLL_PSLT, 3) | selected tributary
: P 0380 0 .(DLL_PPVT, 4) | previous tributary
: P 0381 0 .(DLL_PTST, 5) | tributary status
: P 0382 0 .(DLL_PTST_STRM, 0) | : streaming
: P 0383 0 .(DLL_PTST_STMO, 1) | : continued send after timeout
: P 0384 0 .(DLL_PTST_SDES, 2) | : continued send after deselect
: P 0385 0 .(DLL_PTST_ESTR, 3) | : ended streaming
: P 0386 0 .(DLL_PRTB, 6) | received tributary
: P 0387 0 .(DLL_PBKL, 7) | block length
: P 0388 0 .(DLL_PBFL, 8) | buffer length
: P 0389 0 .(DLL_PDTE, 9) | DTE (ascic)
: P 0390 0 .(DLL_PRSN, 10) | : Reason
: P 0391 0 .(DLL_PRSN_OPER, 0) | : operator command
: P 0392 0 .(DLL_PRSN_NORM, 1) | : normal operation
: P 0393 0 .(DLL_POST, 11) | : Old X.25 state (only event 5.11)
: P 0394 0 .(DLL_POST_ON, 0) | | : on
: P 0395 0 .(DLL_POST_OFF, 1) | | : off
: P 0396 0 .(DLL_POST_SHUF, 2) | shut
: P 0397 0 .(DLL_PNST, 12) | New X.25 state (only event 5.11)
: P 0398 0 .(DLL_PTYP, 13) | Parameter type (DNA numbering scheme)
: P 0399 0 .(DLL_PCAU, 14) | Cause (byte)
: P 0400 0 .(DLL_PDIA, 15) | Diagnostic (byte)
: P 0401 0 .(DLL_PFRS, 16) | failure reason
: P 0402 0 .(DLL_PFRS_EXCO, 0) | excessive collisions
: P 0403 0 .(DLL_PFRS_CACK, 1) | carrier check failed
: P 0404 0 .(DLL_PFRS_SHCI, 3) | ! (2 is obsolete)
: P 0405 0 .(DLL_PFRS_OPCI, 4) | short circuit
: P 0406 0 .(DLL_PFRS_FLNG, 5) | open circuit
: P 0407 0 .(DLL_PFRS_RFTD, 6) | frame too long
: P 0408 0 .(DLL_PFRS_BCHK, 7) | remote failure to defer
: P 0409 0 .(DLL_PFRS_FRAM, 8) | block check error
: P 0410 0 .(DLL_PFRS_FRAM, 8) | framing error

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: P 0412 0 .(DLL_PFRS_OVER, 9) | data overrun
: P 0413 0 .(DLL_PFRS_SBU, 10) | system buffer unavailable
: P 0414 0 .(DLL_PFRS_UBU, 11) | user buffer unavailable
: P 0415 0 .(DLL_PFRS_UNPF, 12) | unrecognized frame destination
: P 0416 0 .(DLL_PDIS, 17) | distance
: P 0417 0 .(DLL_PEHQ, 18) | ethernet header
: P 0418 0 .(DLL_PHWS, 19) | hardware status (any noncoded type)
: P 0419 0
: P 0420 0 .(PLL_PDVR, 0) | device register
: P 0421 0 .(PLL_PNEW, 1) | new state
: P 0422 0 .(PLL_PNEW_OFF, 0) | off
: P 0423 0 .(PLL_PNEW_ON, 1) | on
: P 0424 0
: P 0425 0 .(VMS_PNOD, 0) | Remote node (CM-1/2, DU-2, AI-6)
: P 0426 0 .(VMS_PPRC, 1) | (process) name (AI-16)
: P 0427 0 .(VMS_PPID, 2) | (process) PID (H-4)
: P 0428 0 .(VMS_PSTS, 3) | (process) status (H-4)
: 0429 0 ;
: 0430 0
: 0431 0
: 0432 0 ! End of EVC structure
: 0433 0
```

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0434 0
0435 0
0436 0
0437 0
0438 0 | Raw event structure
0439 0 |
0440 0
0441 0 |...$RAWDEF
0442 0
0443 0 MACRO RAWSW_BYTES = 0,0,16,0%; ! Number of bytes including this count
0444 0 MACRO RAWST_SYSTIM = 2,0,0,0%; ! 64 bit system time of event
0445 0 LITERAL RAWSS_SYSTIM = 8;
0446 0 MACRO RAWSW_EVTCODE = 10,0,16,0%; ! DNA event code
0447 0
0448 0 MACRO RAW$V_EVTTYP = 10,0,6,0%; ! Type number of event
0449 0 LITERAL RAW$M_EVTTYP = 1^6 - 1^0;
0450 0 MACRO RAW$V_EVTCLS = 10,6,9,0%; ! Class number of event
0451 0 LITERAL RAW$M_EVTCLS = 1^15 - 1^6;
0452 0
0453 0 MACRO RAW$B_SRCTYP = 12,0,8,0%; ! DNA source type code
0454 0 MACRO RAW$T_SRCID = 13,0,0,0%; ! Source code
0455 0 LITERAL RAW$S_SRCID = 17;
0456 0
0457 0 MACRO RAW$T_DATA = 30,0,8,0%; ! Event data starts here in DNA format
0458 0 | (may be mixed counters and/or parameters)
0459 0 LITERAL RAW$C_SIZE = 31;
0460 0 LITERAL RAW$K_SIZE = 31;
0461 0
0462 0
0463 0 | End of EVCDEF.MDL
0464 0
```

0465 0 | Version: 'V04-000'  
0466 0 |  
0467 0 |\*\*\*\*\*  
0468 0 |  
0469 0 | \*  
0470 0 | \* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
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0487 0 | \*  
0488 0 | \*  
0489 0 |\*\*\*\*\*  
0490 0 |  
0491 0 |++  
0492 0 | NMATAIL.B32  
0493 0 |  
0494 0 | Source to undeclare the macros required for the precompile of  
0495 0 | NMALIBRY.B32 so they do not appear in the library.  
0496 0 |--  
0497 0 |  
0498 0 |  
0499 0 | UNDECLARE %QUOTE SEQLST,  
0500 0 | %QUOTE GET1ST,  
0501 0 | %QUOTE GET2ND,  
0502 0 | %QUOTE NUL2ND  
0503 0 | :  
0504 0 |  
0505 0 |  
0506 0 | End of NMATAIL.B32  
0507 0 |

#### COMMAND QUALIFIERS

BLISS/LIBRARY=LIBS:EVCDEF/LIST=LIS\$:EVCDEF SRC\$:LIBHEAD+LIBS:EVCDEF+SRC\$:LIBTAIL

: Run Time: 00:11.8  
: Elapsed Time: 00:18.3  
: Lines/CPU Min: 2584

15<sup>4</sup>-Sep-1984 23:03:06 VAX-11 Bliss-32 v4.0-742

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: Lexemes/CPU-Min: 73962  
: Memory Used: 66 pages  
: Library Precompilation Complete

0156 AH-BT13A-SE  
VAX/VMS V4.0

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